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                 CA/CAplus Indian patent publication number format defined
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NEWS
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                 BIOSIS reloaded and enhanced with archival data
NEWS
        MAY 21
NEWS
         MAY 21
                 TOXCENTER enhanced with BIOSIS reload
                 CA/CAplus enhanced with additional kind codes for German
NEWS
         MAY 21
                 patents
                 CA/CAplus enhanced with IPC reclassification in Japanese
         MAY 22
NEWS 8
                 patents
         JUN 27
                 CA/CAplus enhanced with pre-1967 CAS Registry Numbers
NEWS 9
NEWS 10
        JUN 29
                 STN Viewer now available
NEWS 11
        JUN 29
                 STN Express, Version 8.2, now available
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                 LEMBASE coverage updated
NEWS 12
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NEWS 13 JUL 02
                 SCISEARCH enhanced with complete author names
NEWS 14
        JUL 02
                CHEMCATS accession numbers revised
NEWS 15
         JUL 02
                CA/CAplus enhanced with utility model patents from China
NEWS 16
         JUL 02
                CAplus enhanced with French and German abstracts
NEWS 17
         JUL 16
         JUL 18
NEWS 18
                 CA/CAplus patent coverage enhanced
         JUL 26
                 USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 19
         JUL 30
                 USGENE now available on STN
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NEWS 21
         AUG 06
                 CAS REGISTRY enhanced with new experimental property tags
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                 BEILSTEIN updated with new compounds
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                 FSTA enhanced with new thesaurus edition
NEWS 23
         AUG 06
                 CA/CAplus enhanced with additional kind codes for granted
NEWS 24
         AUG 13
                 patents
                 CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 25
         AUG 20
                 Full-text patent databases enhanced with predefined
NEWS 26
         AUG 27
                 patent family display formats from INPADOCDB
         AUG 27
NEWS 27
                 USPATOLD now available on STN
                 CAS REGISTRY enhanced with additional experimental
NEWS 28
         AUG 28
                 spectral property data
NEWS 29
                 STN AnaVist, Version 2.0, now available with Derwent
         SEP 07
                 World Patents Index
              05 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2,
NEWS EXPRESS
              CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 05 SEPTEMBER 2007.
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Uploading C:\Program Files\Stnexp\Queries\10520621\Struc 7.str

chain nodes :

10520621a.trn

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Page 3
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6 14 15
ring nodes:
1 2 3 4 5 7 8 9 10 11 12 17 18 19 20
chain bonds:
2-14 3-6 5-15 6-7
ring bonds:
1-2 1-5 2-3 3-4 4-5 7-8 7-12 8-9 9-10 9-17 10-11 10-20 11-12 17-18
18-19 19-20
exact/norm bonds:
1-2 1-5 2-3 2-14 3-4 4-5 5-15
exact bonds:
3-6 6-7
normalized bonds:
7-8 7-12 8-9 9-10 9-17 10-11 10-20 11-12 17-18 18-19 19-20

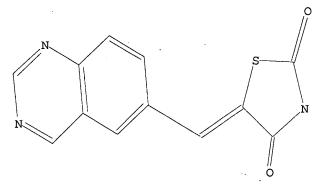
G1:0,S,N

Match level :

1:Atom 2:Atom 3:Atom 4:CLASS 5:Atom 6:CLASS 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS

L1 STRUCTURE UPLOADED

=> d L1 HAS NO ANSWERS L1 STR



G1 O, S, N

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 15:15:19 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 4 TO ITERATE

100.0% PROCESSED 4 IT

4 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**

PROJECTED ITERATIONS:

4 TO 20

10520621a.trn

PROJECTED ANSWERS:

2 TO ' 124

L2

2 SEA SSS SAM L1

=> 11 full

FULL SEARCH INITIATED 15:15:22 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 42 TO ITERATE

100.0% PROCESSED

42 ITERATIONS

24 ANSWERS

SEARCH TIME: 00.00.01

L3

24 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

172.10

TOTAL

172.31

ENTRY SESSION

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:15:24 ON 11 SEP 2007 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

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http://www.cas.org/infopolicy.html

=> 13

L4 3 L3

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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:367076 CAPLUS
DOCUMENT NUMBER: 144:398358
P13 kinase gamma inhibitors for the treatment of anemia
INVENTOR(S): Metzker, Reinhard; Mueller, Angelika; Rommel, Christian
PATENT ASSIGNEE(S): Applied Research Systems Ara Holding N.V., Neth. Antilles
SOURCE: PCT Int. Appl., 48 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: PGT INT. English
FAMILY ACC. NUM. COUNT: 1 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| | PATENT NO. | | | | | | DATE | | APPLICATION NO. | | | | | | | | | |
|---------------|------------|------|------|------------|-------------|-----|------|-----------------|-----------------|------|------|-------|-----|-----|-----|------|-----|--|
| WO | | | | | A2 20060420 | | | WO 2005-EP55156 | | | | | | | | | | |
| | W: | ΑE, | AG, | AL, | AM, | AT, | ΑU, | AZ, | BA, | вв, | BG, | BR, | BW, | BY, | BZ, | CA, | CH, | |
| | | CN, | co, | CR, | Çυ, | CZ, | DE, | DK, | DM, | DZ, | EC, | EE, | EG, | ES, | FI, | GB, | GD, | |
| | | GE, | GH, | GM, | HR, | Hυ, | ID, | IL, | IN, | IS, | JP, | ΚE, | KG, | KM, | KP, | KR, | ΚZ, | |
| | | LC, | LK, | LR, | LS, | LT, | LU, | LV, | LY, | MA, | MD, | MG, | MK, | MN, | MW, | MX, | MZ, | |
| | | NA, | NG, | NI, | NO, | NZ, | OM, | PG, | PH, | PL, | PT, | RO, | Rυ, | sc, | SD, | SE, | SG, | |
| | | sĸ, | SL, | SM, | SY, | TJ, | TM, | TN, | TR, | TT, | TZ, | UA, | UG, | US, | UZ, | VC, | VN, | |
| | | Yυ, | ZA, | ZM, | ZW | | | | | | | | | | | | | |
| | RW: | AT, | BE, | BG, | CH, | CY, | CZ. | DE, | DK, | EE, | ES, | FI, | FR, | GB, | GR, | HU, | IE, | |
| | | IS, | ΙT, | LT, | LU, | LV, | MC, | NL, | PL, | PT, | RO, | SE, | SI, | SK, | TR, | BF, | ВJ, | |
| | | CF, | CG, | CI, | CM, | GA, | GN, | GQ, | GW, | ML, | MR, | ΝE, | SN, | TD, | TG, | BW, | GH, | |
| | | GM, | ΚE, | LS, | MW, | MZ, | NA, | SD, | SL, | SZ, | TZ, | υG, | ZM, | ZW, | AM, | AZ, | BY, | |
| | | | | | RU, | | | | | | | | | | | | | |
| AU 2005293556 | | | | I.A | 200,60420 | | | AU 2005-293556 | | | | | | | | | | |
| CA | 2580 | 480 | | | Al | | 2006 | 0420 | | CA 2 | 005- | 2580 | 480 | | 2 | 0051 | 011 | |
| EP | 1807 | 075 | | | A2 | | 2007 | 0718 | 1 | EP 2 | 005- | 8017 | 22 | | 2 | 0051 | 011 | |
| | R; | ΑT, | BE, | BG, | CH, | CY, | ÇZ, | DΞ, | DK, | ĒΕ, | ES, | FĪ, | FR, | GB, | GR, | ΗU, | ΙE, | |
| | | IS, | ΙT, | LI, | LT, | LU, | LV, | MC, | NL, | PL, | PΤ, | RO, | SE, | SI, | SK, | TR, | AL, | |
| | | | | MK, | | | | | | | | | | | | | | |
| 111 | 2007 | DN02 | 450 | | A | | 2007 | 0803 | | IN 2 | 007- | DN 24 | 50 | | 2 | 0070 | 402 | |
| | 2007 | | | | | | 2007 | 0509 | | | | | | | | | | |
| ORIT | YAPP | LN. | INFO | <i>.</i> : | | | | | | EP 2 | 004- | 1049 | 97 | | A 2 | 0041 | 012 | |
| | | | | | | | | | , | WO 2 | 005- | EP55 | 156 | | W 2 | 0051 | 011 | |

OTHER SOURCE(S):

MARPAT 144:398358

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

648449-86-9 CAPLUS 2.4-Thiezolidinedione, 5-[[4-(1-piperidinyl)-6-quinazolinyl]methylene]-(9C1) (CA INDEX NAME)

648449-87-0 CAPLUS 2,4-Thiazolidinedione, (9CI) (CA INDEX NAME)

648449-88-1 CAPLUS
2,4-Thiazolidinedione, 5-[[4-[(phenylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-89-2 CAPLUS 2,4-Thiazoliinedione, 5-[[4-(diethylamino)-6-quinazolinyl]methylene]-(9C1) (CA INDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

related to erythrocyte deficiency. Specifically, the present invention

related to the use of selective PI3 Kinase gamma inhibitors, e.g. substituted azolidinone-vinyl fused-benzene derivs. for the treatment of an anemia, including haemolytic anemia, aplastic anemia and pure red cell anemia. (I) wherein A, X, Yl, Y2, Z, n, Rl and R2 are described in

enemia. (I) wherein A, X, Yl, Y2, Z, n, Rl and KZ are described in the description hereinafter.

IT 648449-83-6 648449-84-7 648449-85-8 648449-86-6 648449-86-6 648449-86-7 648449-86-7 648449-86-7 648449-90-7 648449-91-6 648449-92-7 648449-92-7 648449-97-7 648449-97-7 648449-97-7 64849-98-0 648449-97-7 64849-98-0 648449-98-6 648449-97-7 648450-01-5 648450-02-6 648915-80-4 RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(PI3 kinase gamma inhibitors for treatment of anemia)

RM 648449-83-6 CAPLUS

CN 2,4-Thiazolidinedione, 5-[(4-phenyl-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-84-7 CAPLUS
2.4-Thiazolidinedione, 5-[[4-(dimethylamino)-6-quinazolinyl]methylene)(9CI) (CA INDEX NAME)

648449-85-8 CAPLUS
2,4-Thiazolidinedione, 5-{(4-amino-6-quinazolinyl)methylene}- (9CI) (CAINDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

648449-90-5 CAPLUS
2,4-Thiszolidinedione, 5-([4-[(2-pyridinylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-91-6 CAPLUS
2,4-Thiezolidinedione, 5-[[4-[(3-pyridinylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

RN 648449-92-7 CAPLUS
CN 3-Piperidinecarboxylic acid,
1-[6-[12,4-dioxo-5-tchiazolidinylidene)methyl]4-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

RN 648449-93-8 CAPLUS
CN 4-Piperidinecarboxylic acid,
1-[6-[(2,4-dioxo-5-thiazolidinylidene)methyl]4-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 648449-94-9 CAPLUS CN L-Proline, 1-[6-[12,4-dioxo-5-thiazolidinylidene)methyl]-4-quinazolinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648449-98-3 CAPLUS
2,4-Thiazolidinedione, 5-{{4-[4-(phenylmethyl)-1-piperidinyl]-6-quinazolinyl|methylene]- (9CI) (CA INDEX NAME)

648449-99-4 CAPLUS
2.4-Thiazolidinedione, 5-[[4-[4-(2-phenylethyl)-1-piperidinyl]-6-quinazolinyl]methylene]- [9CI) (CA INDEX NAME)

648450-00-4 CAPLUS
2.4-Thiazolidinedione, 5-[[4-(4-methyl-1-piperidinyl)-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Coi 648449-95-0 CAPLUS 2,4-Thiazolidinedione, 5-[[4-(4-methyl-1-piperazinyl)-6-quinazolinyl]methylene}- (9CI) (CA INDEX NAME)

648449-96-1 CAPLUS 2,4-Thiazolidinedione, 5-[[4-[4-(2-pyrimidiny1)-1-pipersziny1]-6-quinazoliny1]methylenej- (9CI) (CA INDEX NAME)

648448-97-2 CAPLUS 2,4-Thiazolidinedione, 5-[[4-[4-(4-fluorophenyl)-1-piperidinyl]-6-quinazolinyl]methylene]- (9CI) (CA IMDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648450-01-5 CAPLUS 2,4-Thiazolidinedione, 5-[[4-(4-hydroxy-1-piperidinyl)-6-quinazolinyl]methylene)- (9CI) (CA INDEX NAME)

RN 648450-02-6 CAPLUS CN 4-Piperidinecarboxylic acid, 1-[6-[12,4-dioxo-5-thiazolladinylidene)methyl]-4-quinazolinyl]- [9CI) (CA INDEX NAME)

RN 648450-03-7 CAPLUS
CN 3-Piperidinecarboxylic acid,
1-(6-[(2,4-dioxo-5-chiazolidinylidene)mechyl)4-quinazolinyl)- (9C1) (CA INDEX NAME)

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648450-05-9 CAPLUS 2,4-Thiazolidinedione, (9CI) (CA INDEX NAME) 5-{[4-(methylamino)-6-quinazolinyl]methylene}-

648450-06-0 CAPLUS 2,4-Thiazolidinedione, 5-[(4-methoxy-6-quinazolinyl)methylene)- (9CI) INDEX NAME)

648915-80-4 CAPLUS L-Froline, l-(6-[(2,4-dioxo-5-thiazolidinylidene)methyl]-4-quinazolinyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:60505 CAPLUS DOCUMENT NUMBER: 140:128412

140:128412
Preparation of azolidinone-vinyl fused-benzene derivatives for therapeutic uses as PI3 kinase inhibitors
Rueckle, Thomas: Jiang, Xuliang; Gaillard, Pascale; Church, Dennis: Vallotton, Tania Applied Research Systems Ars Holding N.V., Neth. Antilles
PCT Int. Appl., 142 pp.
CODEN: PIXXD2
Patent
English
1

PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. US 2002-289998 A 20021107

WO 2003-EP50302 W 20030710

MARPAT 140:128412 OTHER SOURCE(S):

ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB The present invention is related to the preparation of azolidinedione-vinyl fused-benzene derivs., such as I [R] = H, CN, carboxy, acyl, alkoxy, halogen, acyloxy, etc.: A = fused heterocyclic or carbocyclic ring: Yl,

- S, O, NN], and their use in pharmaceutical compns. as P13 kinase (P13K) inhibitors. These azolidinones are claimed for use in the treatment and/or prophylaxis of autoimmune disorders, inflammatory diseases, cardiovascular diseases, neurodegenerative diseases, bacterial or viral infections, kidney diseases, cancer, graft rejection, lung injuries, chronic obstructive pulmonary disease, anaphylactic shock, fibrosis, psoriasis, allergic diseases, asthma, stroke or ischemic conditions, ischemia-reperfusion, platelet aggregation/activation, skeletal muscle atrophy/hypertrophy, leukocyte recruitment in cancer tissue, ogenesis, invasion metastasis in melanoma and Kaposi's sarcoma, sepsis, transplantation, pancreatitis, multi-organ failure, glomerulosclerosis, glomerulonephritis, progressive renal fibrosis, endothelial and helial

relial in the lung or in general lung airways inflammation. Further, injuries in the lung or in general lung airways inflammation. Further, these azolidinones are claimed for use in the treatment of atherosclerosis, hypertrophy, cardiac myocyte dysfunction, elevated blood pressure, vasoconstriction, Alzheimer's disease, Huntington's disease.

trauma, multiple sclerosis, rheumatoid arthritis, systemic lupus erythematosus, inflammatory bowel disease, thrombosis, and brain infection/inflammation such as meningitis or encephalitis. Thus, atolidinone II was prepared via a condensation reaction of piperonal with 2,4-thinzolidinedione using fi-alanine in acetic acid and stirring at 100° for 3 h. Some of the prepared azolidinones were assayed for PIJKy inhibition using a high throughput PIJK lipid kinase binding assay. Tablet, capsule, liquid and injectable pharmaceutical compns.

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

RN 648449-94-9 CAPLUS
CN L-Proline,
1-[6-[(2,4-dioxo-5-thiazolidinylidene)methyl]-4-quinazolinyl]-,
[1,1-dimethylethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

648449-83-6P 648449-84-7P 648449-85-8P 648449-83-6P 648449-87-0P 648449-88-1P 648449-92-2P 648449-95-0P 648449-91-6P 648449-97-2P 648449-95-0P 648449-96-1P 648430-07-2P 648449-98-1P 648449-96-1P 648450-00-4P 648450-01-5P 648450-02-6P 648450-03-7P 648450-05-9P 648450-06-0P 648915-80-4P RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of azolidinone-vinyl fused-benzene deriva, for use in pharmaceutical compns. as PIJ kinase inhibitors) 648449-83-6 CAPLUS 2,4-Thisolidinedione, 5-{(4-phenyl-6-quinazolinyl)methylene}- (9CI) (CA INDEX NAME)

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

648449-88-1 CAPLUS
2,4-Thiazolidinedione, 5-[[4-[(phenylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-89-2 CAPLUS 2.4-Thiazolidinedione, 5-[[4-(diethylamino)-6-quinazolinyl]methylene]-(9C1) (CA INDEX NAME)

648449-90-5 CAPLUS
2.4-Thiazolidinedione, 5-[[4-[(2-pyridinylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-91-6 CAPLUS 10520621a.trn ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

648449-84-7 CAPLUS 2,4-Thiazolidinedione, 5-[[4-(dimethylamino)-6-quinazolinyl]methylene]-(9CI) (CA INDEX NAME)

648449-85-8 2,4-Thiazolidinedione, 5-{(4-amino-6-quinazolinyl)methylene}- (9CI) (CA INDEX NAME)

648449-86-9 CAPLUS 2.4-Thiazolidinedione, 5-{[4-(1-piperidinyl)-6-quinazolinyl]methylene]-(9C1) (CA INDEX NAME)

648449-87-0 CAPLUS
2.4-Thiazolidinedione, 5-[[4-(4-morpholinyl)-6-quinazolinyl]methylene](9CI) (CA INDEX NAME)

ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 2,4-Thiazolidinedione, 5-[[4-{(3-pyridinylmethyl)amino}-6-quinazolinyl]methylene}- (9C1) (CA INDEX NAME)

RN 648449-92-7 CAPLUS
CN 3-Piperidinecarboxylic acid,
1-[6-[12,4-dioxo-5-thiszolidinylidene]methyl]4-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

648449-95-0 CAPLUS 2,4-Thiazolidinedione, 5-[[4-(4-methyl-1-piperazinyl)-6-quinazolidinyl]methylene]- (9CI) (CA INDEX NAME)

648449-96-1 CAPLUS
2,4-Thiazolidinedione, 5-[[4-[4-(2-pyrimidinyl)-1-piperazinyl]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 648449-97-2 CAPLUS
CN 2,4-Thiazolidimedione, 5-[[4-[4-(4-fluorophenyl)-l-piperidinyl]-6quinzeolinyl]methylene]- (9C1) (CA INDEX NAME)

RN 648449-98-3 CAPLUS
CN 2.4-Thiazolidinedione, 5-[[4-[4-(phenylmethyl)-1-piperidinyl]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 648450-02-6 CAPLUS
CN 4-Piperidinecarboxylic acid,
1-[6-[12,4-dioxo-5-chiazolidinylidene)methyl]4-quinazolinyl]- (9C1) (CA INDEX NAME)

RN 648450-03-7 CAPLUS
CN 3-Piperidinecarboxylic acid,
1-[6-[(2,4-dioxo-5-thiazolidinylidene)methyl]4-quinazolinyl]- (9CI) (CA INDEX NAME)

RN 648450-05-9 CAPLUS CN 2.4-Thiazolidinedione, 5-[[4-(methylamino)-6-quinazolinyl]methylene]-(961) (CA INDEX NAME) L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

RN 64849-99-4 CAPLUS
CN 2,4-Thiazolidimedione, 5-[[4-[4-(2-phenylethyl)-1-piperidinyl]-6quinazolinyl]methylene]- (9C1) (CA INDEX NAME)

RN 648450-00-4 CAPLUS
CN 2,4-Thiazolidinedione, 5-{[4-(4-methyl-1-piperidinyl)-6-quinazolinyl]methylene]- [9CI) (CA INDEX NAME)

RN 648450-01-5 CAPLUS CN 2,4-Thiazolidinedione, 5-[[4-(4-hydroxy-1-piperidinyl)-6quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 648450-06-0 CAPLUS
CN 2,4-Thiazolidinedione, 5-[(4-methoxy-6-quinazolinyl)methylene]- (9CI)
(CA
INDEX NAME)

RN 648915-80-4 CAPLUS CN L-Proline, 1-[6-[(2,4-dioxo-5-thiazolidinylidene)methyl]-4-quinazolinyl]-(9C1) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:60305 CAPLUS DOCUMENT NUMBER: 140:128411
TITLE: Preparation of dioxothiazoly

140:128411
Preparation of dioxothiazolylidenemethyl derivatives for increasing spermatozoa motility
De Luca, Giampiero
Applied Research Systems Ars Holding NV, Neth.
Antilles
PCT Int. Appl., 131 pp.
CODEN: PIXXD2
Patent INVENTOR(S): PATENT ASSIGNEE(S):

DOCUMENT TYPE:

English LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

| PAT | ENT | NO. | | | KINI | D | DATE | | | APPI | ICAT | ION I | NO. | | Di | ATE | |
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| WO | WO 2004006916 | | | | A1 20040122 | | | WO 2003-EP50303 | | | | | | 20030710 | | | |
| | w: | AE, | AG, | AL. | AM, | AT, | AU, | AZ, | BA, | вв, | BG, | BR, | BY, | BZ, | CA, | CH, | CN, |
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| | | TR. | TT. | TZ. | UA. | UG. | US. | UZ. | vc. | VN. | Yυ, | ZA, | 2M. | ZW | | | |
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| | | BF, | BJ, | CF. | CG, | CI, | CM, | GΑ, | GN, | GQ, | GW, | ML, | MR, | NE, | SN, | TD, | TG |
| CA | CA 2489779 | | A1 | 1 20040122 | | | CA 2003-2489779 | | | | | | 2 | N, TD, TG 20030710 | | | |
| AU | AU 2003255529 | | | A1 20040202 | | | | AU 2003-255529 | | | | | | | | | |
| EP | EP 1531813 | | | A1 | A1 20050525 | | | | EP 2 | 003- | 7639 | 80 | | 20030710 | | | |
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| JP | 2006 | 5003 | 27 | | T | | 2006 | 0105 | | JP 2 | 2004- | 5206 | во | | 2 | 0030 | 710 |
| NO | 2005 | 0007 | 13 | | А | | 2005 | 0210 | | NO 2 | 2005- | 713 | | | 2 | 0050 | 210 |
| US | 2005 | 2222 | 25 | | A1 | | 2005 | 1006 | | US 2 | 2005- | 5196 | 85 | | 2 | 0050 | 504 |
| PRIORIT | APP | LN. | INFO | .: | | | | | | EP 2 | 2002- | 1007 | 99 | | A 2 | 0020 | 710 |
| | | | | | | | | | | EP 2 | 2002- | 1028 | 76 | | A 2 | 0021 | 223 |

WO 2003-EP50303 OTHER SOURCE(S): MARPAT 140:128411

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648449-83-6P. 3-(4-Phenylquinazolin-6-ylmethylene)thiazolidine-2,4-dione 648449-84-7P, 5-(4-Dimethylaminoquinazolin-6-ylmethylene)thiazolidine-2,4-dione 648449-85-8P,
5-(4-Aminoquinazolin-6-ylmethylene)thiazolidine-2,4-dione 648449-85-P, 5-(4-H-Piperidin-1-ylquinazolin-6-ylmethylene]thiazolidine-2,4-dione 648449-87-0P,
5-(4-Morpholin-4-ylquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-88-1P, 5-[4-(Benzylaminolquinazolin-6-ylmethylene]thiazolidine-2,4-dione 648449-89-2P,
5-[4-(Diethylaminolquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-90-5P, 5-[4-(Pyridin-3-y-ylmethyl)laminolquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-91-6P,
5-[4-(Pyridin-3-ymethyl)laminolquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-91-6P,
5-[4-(4-Methylpine)zolidine-2,4-dione 648449-91-6P,
5-[4-(4-Methylpine)zolidine-2,4-dione 648449-96-P,
5-[4-(4-Pyrimidin-2-ylpiperazin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-96-P,
5-[4-(4-Pyrimidin-2-ylpiperazin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-96-P,
5-[4-(4-Pyrimidin-2-ylpiperazin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-98-P,
5-[4-(4-Pyrimidin-2-ylpiperazin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648449-98-P,
5-[4-(4-Benzylpiperidin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648489-99-P,
5-[4-(4-Methylpiperidin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648489-90-P,
5-[4-(4-Methylpiperidin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648489-90-P,
64(4-Methylpiperidin-1-yllquinazolin-6-yllmethylene]thiazolidine-2,4-dione 648489-90-P)

yl]quinazolin-6-yl]methylene]thiazolidine-2,4-dione 648450-00-4P

5-{[4-(4-Methylpiperidin-1-yl)quinazolin-6-yl]methylene]thiazolidine-2,4dione 648450-01-5P, 5-{[4-(4-Methydroxylperidin-1-yl)quinazolin-6yl]methylene]thiazolidine-2,4-dione 648450-02-6P,
i-(6-(2,4-Dioxothiazolidine-2,4-dione 648450-02-6P,
i-(6-(2,4-Dioxothiazolidine-5-ylidenemethyl)quinazolin-4-yl]piperidine-4carboxylic acid 648450-03-7P, 1-(6-(2,4-Dioxothiazolidin-5ylidenemethyl)quinazolin-6-yl]piperidine-3-carboxylic acid
648450-05-9P, 5-(4-Methylaminquinazolin-6ylmethylene)thiazolidine-2,4-dione 648450-06-0P,
5-(4-Methoxyquinazolin-6-ylmethylene)thiazolidine-2,4-dione
648915-80-4P, 1-(6-(2,4-Dioxothiazolidin-5ylidenemethyl)quinazolin-1-dyl]pyrolidine-2-carboxylic acid
RL: PAC (Pharmacological activaty); SPN (Synthetic preparation); THU
(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
(Uses)
spermatozoa
motility)
RN 648449-83-6 CAPLUS
CN 2,4-Thiazolidinedione, 5-[(4-phenyl-6-quinazolinyl)methylene]- (9CI) (CA
INDEX NAME)

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

Title compds. I [X = S, O, NH; Y1-2 = S, O, NH; Cy = 5-8 membered, optionally fused, carbo/heterocyclic ring) are prepared for instance, thiszolidine-2, 4-dione is condensed with piperonal (HOAC, B-alanine, 3 h, 100°) to give II. Selected examples have ICSO < 1 mM for the phosphatidylinositol-3-kinase (PI3Ky) receptor. I are useful for the improvement of spermatozoa motility. Furthermore, I are useful for the increase of spermatozoa motility. Furthermore, I are used to treat infertility and assisted reproduction techniques (ART). 648449-93-8P, Ethyl 1-[6-[12,4-dioxothiazolidin-5-ylidenelmethyl]quinazolin-4-yl]piperidin-4-carboxylate 648449-94-9P

648449-94-9P RI: PAC (PhArmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation of dioxothiazoly)idenemethyl deriva. for increasing

spermatozoa motility) RN 648449-93-8 CAPLUS

NN 090947-73-0 CATION

(N 4-Piperidinecarboxylic acid,

1-{6-[.42,4-dioxo-5-thiazolidinylidene}methyl]
4-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

RN 648449-94-9 CAPLUS CN L-Proline, 1-[6-[(2,4-dioxo-5-thiazolidinylidene)methyl]-4-quinazolanyl)-, 1,1-dimethylethyl ester (9Cl) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown:

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

648449-84-7 CAPLUS 2,4-Thiazolidinedione, 5-[{4-{dimethylamino}-6-quinazolinyl}methylene}-(9CI) (CA INDEX NAME)

648449-85-8 CAPLUS 2.4-Thiazolidinedione, 5-{(4-amino-6-quinazolinyl)methylene}- (9CI) (CA INDEX NAME)

648449-86-9 CAPLUS
2,4-Thiazolidinedione, 5-[[4-(1-piperidinyl)-6-quinazolinyl}methylene](9CI) (CA INDEX NAME)

648449-87-0 CAPLUS 2,4-Thiazolidinedione, 5-{[4-(4-morpholinyl)-6-quinazolinyl]methylene]-(9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648449-88-1 CAPLUS
2,4-Thiazolidinedione, 5-[[4-[(phenylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-89-2 CAPLUS 2,4-Thiazolindedione, 5-[{4-(diethylamino)-6-quinazolinyl]methylene]-(9CI) (CA INDEX NAME)

648449-90-5 CAPLUS
2.4-Thiazolidinedione, 5-[[4-[(2-pyridinylmethyl)amino]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Cor 648449-95-0 CAPLUS 2.4-Thiacoldinedione, 5-{(4-(4-methyl-1-piperazinyl)-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-96-1 CAPLUS 2.4-Thiazoldinedione, 5-[[4-|4-(2-pyrimidinyl)-1-piperazinyl]-6-quinazolinyl]methylene)- (9CI) (CA INDEX NAME)

648449-97-2 CAPLUS
2.4-Thiazolidinedione, 5-[{4-[4-(4-fluorophenyl)-1-piperidinyl]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648449-91-6 CAPLUS

2.4-Thiazolidinedione, 5-{[4-{(3-pyridinylmethyl)amino}-6-quinazolinyl]methylene}- (9CI) (CA INDEX NAME)

RN 648449-92-7 CAPLUS CN 3-Paperidinecarboxylic acid, 1-{6-[12,4-dioxo-5-thiazolidinylidene]methyl]-4-quinazolinyl]-, ethyl ester (9CI) (CA INDEX NAME)

ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

648449-98-3 CAPLUS 2,4-Thiazolidinedione, 5-[[4-[4-(phenylmethyl)-1-piperidinyl]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648449-99-4 CAPLUS
2.4-Thiazolidinedione, 5-{[4-[4-(2-phenylethyl}-1-piperidinyl]-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

648450-00-4 CAPLUS
2,4-Thiazolidinedione, 5-[[4-(4-methyl-1-piperidinyl)-6-quinazolinyl]methylene]- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 648450-01-5 CAPLUS
CN 2,4-Thiazolidinedione, 5-[[4-(4-hydroxy-1-piperidinyl)-6-quinazolinyl]methylenel- (9CI) (GA INDEX NAME)

RN 648450-02-6 CAPLUS
CN 4-Piperidinecarboxylic acid,
1-{6-{(2,4-dixoo-5-thiazolidinylidene)methyl}4-quinazolinyl]- (9CI) (CA INDEX NAME)

RN 648450-03-7 CAPLUS
CN 3-Piperidinecarboxylic acid,
1-[6-[(2,4-dioxo-5-thiazolidinylldene)methyl]4-quinazolinyl]- (9C1) (CA INDEX NAME)

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 648450-05-9 CAPLUS
CN 2.4-Thiazolidinedione, 5-[[4-(methylamino)-6-quinazolinyl]methylene](9C1) (CA INDEX NAME)

RN 648450-06-0 CAPLUS
CN 2,4-Thiazolidinedione, 5-{(4-methoxy-6-quinazolinyl)methylene}- (9CI)
(CA INDEX NAME)

RN 648915-80-4 CAPLUS CN L-Proline, 1-[6-[(2,4-dioxo-5-thiazolidinylidene)methyl]-4-quinazolinyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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|--|----------------|-------------------|
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